

## LOW DENSITY LIGHT WEIGHT FILAMENT AND FIBER

### Abstract

A lightweight, low density fiber is disclosed along with a method of manufacture.

- 5 The fiber includes a polyester copolymer for providing a greater elasticity than a corresponding monomer-based polyester, more than fifty percent functional void fraction in the form of foam-forming cells for reducing the density of the fiber as compared to a solid fiber, at least five void cells per axial cross section for increasing the structural integrity of the fiber as compared to less uniform foams, and submicron-sized particles of
- 10 a fluorocarbon polymer, present in an amount less than 10 percent by weight.

SAFIRM DOCS\3000\193\spec193.doc